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907.563.9200 fax 907.563.9210

30 April 2006

Bill Haldeman
PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005
RE: Shell Harbor Island

Enclosed are the results of analyses for samples received by the laboratory on 04/15/06 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sandra Yakamavich
Project Manager



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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall-2-041406	BPD0346-01	Water	04/14/06 07:50	04/15/06 11:30
Outfall-1-041406	BPD0346-02	Water	04/14/06 08:45	04/15/06 11:30
Outfall-1-Inf	BPD0346-03	Water	04/14/06 08:30	04/15/06 11:30
Outfall-1-Mid	BPD0346-04	Water	04/14/06 08:35	04/15/06 11:30
trip blank	BPD0346-05	Water	04/14/06 12:00	04/15/06 11:30

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Sandra Yakamavich, Project Manager

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Project: Shell Harbor Island
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04/30/06 17:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Outfall-1-041406 (BPD0346-02) Water Sampled: 04/14/06 08:45 Received: 04/15/06 11:30									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	6D15012	04/15/06	04/15/06	NWTPH-Gx/8021B	
Surrogate: 4-BFB (FID)	87.3 %	58-144			"	"	"	"	
Outfall-1-041406 (BPD0346-02RE1) Water Sampled: 04/14/06 08:45 Received: 04/15/06 11:30									
Benzene	3.62	0.500	ug/l	1	6D18029	04/18/06	04/18/06	NWTPH-Gx/8021B	
Toluene	1.15	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	2.87	1.00	"	"	"	"	"	"	I-06
Surrogate: 4-BFB (PID)	103 %	68-140			"	"	"	"	
trip blank (BPD0346-05) Water Sampled: 04/14/06 12:00 Received: 04/15/06 11:30									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	6D20013	04/20/06	04/21/06	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	97.3 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	68-140			"	"	"	"	

North Creek Analytical - Bothell

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Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Total Metals by EPA 200 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Outfall-1-041406 (BPD0346-02) Water Sampled: 04/14/06 08:45 Received: 04/15/06 11:30									
Silver	ND	0.0100	mg/l	1	6D19037	04/19/06	04/20/06	EPA 200.7	
Arsenic	ND	0.100	"	"	"	"	"	"	
Cadmium	ND	0.00500	"	"	"	"	"	"	
Copper	ND	0.0100	"	"	"	"	"	"	
Mercury	ND	0.000200	"	"	6D20034	04/20/06	04/20/06	EPA 245.1	
Nickel	ND	0.0100	"	"	6D19037	04/19/06	04/20/06	EPA 200.7	
Lead	ND	0.0500	"	"	"	"	"	"	
Zinc	0.0571	0.0200	"	"	"	"	"	"	
Outfall-1-Inf (BPD0346-03) Water Sampled: 04/14/06 08:30 Received: 04/15/06 11:30									
Zinc	0.428	0.0200	mg/l	1	6D19037	04/19/06	04/20/06	EPA 200.7	
Outfall-1-Mid (BPD0346-04) Water Sampled: 04/14/06 08:35 Received: 04/15/06 11:30									
Zinc	0.0826	0.0200	mg/l	1	6D19037	04/19/06	04/20/06	EPA 200.7	

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Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Organochlorine Pesticides and PCBs by EPA Method 608

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Outfall-1-041406 (BPD0346-02) Water Sampled: 04/14/06 08:45 Received: 04/15/06 11:30									
Aldrin [2C]	ND	0.0990	ug/l	1	6D21037	04/21/06	04/23/06	EPA 608	
alpha-BHC [2C]	ND	0.0396	"	"	"	"	"	"	
beta-BHC [2C]	ND	0.0792	"	"	"	"	"	"	
delta-BHC [2C]	ND	0.0990	"	"	"	"	"	"	
gamma-BHC (Lindane) [2C]	ND	0.0396	"	"	"	"	"	"	
4,4'-DDD [2C]	ND	0.0792	"	"	"	"	"	"	
4,4'-DDE [2C]	ND	0.0792	"	"	"	"	"	"	
4,4'-DDT [2C]	ND	0.0792	"	"	"	"	"	"	
Dieldrin [2C]	ND	0.0792	"	"	"	"	"	"	
Endosulfan I [2C]	ND	0.0198	"	"	"	"	"	"	
Endosulfan II [2C]	ND	0.0792	"	"	"	"	"	"	
Endosulfan sulfate [2C]	ND	0.0990	"	"	"	"	"	"	
Endrin [2C]	ND	0.0792	"	"	"	"	"	"	
Endrin aldehyde [2C]	ND	0.198	"	"	"	"	"	"	
Heptachlor [2C]	ND	0.0792	"	"	"	"	"	"	
Heptachlor epoxide [2C]	ND	0.0396	"	"	"	"	"	"	
Toxaphene [2C]	ND	1.98	"	"	"	"	"	"	
Aroclor 1016 [2C]	ND	0.495	"	"	"	"	"	"	
Aroclor 1221 [2C]	ND	0.495	"	"	"	"	"	"	
Aroclor 1232 [2C]	ND	0.495	"	"	"	"	"	"	
Aroclor 1242 [2C]	ND	0.495	"	"	"	"	"	"	
Aroclor 1248 [2C]	ND	0.495	"	"	"	"	"	"	
Aroclor 1254 [2C]	ND	0.495	"	"	"	"	"	"	
Aroclor 1260 [2C]	ND	0.495	"	"	"	"	"	"	
Surrogate: TCX [2C]	59.1 %	25-129			"	"	"	"	
Surrogate: Decachlorobiphenyl	26.3 %	22-125			"	"	"	"	P-02

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Purgeables by EPA Method 624

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Outfall-1-041406 (BPD0346-02) Water Sampled: 04/14/06 08:45 Received: 04/15/06 11:30									
Acrolein	ND	5.00	ug/l	1	6D17051	04/17/06	04/17/06	EPA 624	
Acrylonitrile	ND	5.00	"	"	"	"	"	"	
Benzene	3.52	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	1.07	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	118 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	"	
Surrogate: 4-BFB	98.2 %	70-130			"	"	"	"	

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9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Acid and Base/Neutral Extractables by EPA Method 625

North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Outfall-1-041406 (BPD0346-02) Water Sampled: 04/14/06 08:45 Received: 04/15/06 11:30										
Acenaphthene	ND	10.0	ug/l	1	6D17014	04/17/06	04/19/06	EPA 625		
Acenaphthylene	ND	10.0	"	"	"	"	"	"		
Aniline	ND	10.0	"	"	"	"	"	"		
Anthracene	ND	10.0	"	"	"	"	"	"		
1,2-Diphenylhydrazine (as Azobenzene)	ND	20.0	"	"	"	"	"	"		
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"		
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"		
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"		
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"		
Benzo (ghi) perylene	ND	10.0	"	"	"	"	"	"		
Benzoic Acid	ND	100	"	"	"	"	"	"		
Benzyl alcohol	ND	10.0	"	"	"	"	"	"		
Bis(2-chloroethoxy)methane	ND	10.0	"	"	"	"	"	"		
Bis(2-chloroethyl)ether	ND	10.0	"	"	"	"	"	"		
Bis(2-chloroisopropyl)ether	ND	10.0	"	"	"	"	"	"		
Bis(2-ethylhexyl)phthalate	ND	50.0	"	"	"	"	"	"		
4-Bromophenyl phenyl ether	ND	10.0	"	"	"	"	"	"		
Butyl benzyl phthalate	ND	10.0	"	"	"	"	"	"		
Carbazole	ND	10.0	"	"	"	"	"	"		
4-Chloroaniline	ND	10.0	"	"	"	"	"	"		
4-Chloro-3-methylphenol	ND	10.0	"	"	"	"	"	"		
2-Chloronaphthalene	ND	10.0	"	"	"	"	"	"		
2-Chlorophenol	ND	10.0	"	"	"	"	"	"		
4-Chlorophenyl phenyl ether	ND	10.0	"	"	"	"	"	"		
3 & 4-Methylphenol (m,p-Cresols)	ND	10.0	"	"	"	"	"	"		
2-Methylphenol (o-Cresol)	ND	10.0	"	"	"	"	"	"		
Chrysene	ND	10.0	"	"	"	"	"	"		
Di-n-butyl phthalate	ND	10.0	"	"	"	"	"	"		
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"		
Dibenzofuran	ND	10.0	"	"	"	"	"	"		
1,2-Dichlorobenzene	ND	10.0	"	"	"	"	"	"		
1,3-Dichlorobenzene	ND	10.0	"	"	"	"	"	"		
1,4-Dichlorobenzene	ND	10.0	"	"	"	"	"	"		
3,3'-Dichlorobenzidine	ND	20.0	"	"	"	"	"	"		
2,4-Dichlorophenol	ND	10.0	"	"	"	"	"	"		
Diethyl phthalate	ND	10.0	"	"	"	"	"	"		
2,4-Dimethylphenol	ND	10.0	"	"	"	"	"	"		

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Reported:
04/30/06 17:37

Acid and Base/Neutral Extractables by EPA Method 625

North Creek Analytical - Bothell

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
Outfall-1-041406 (BPD0346-02) Water Sampled: 04/14/06 08:45 Received: 04/15/06 11:30									
Dimethyl phthalate	ND	10.0	ug/l	1	6D17014	04/17/06	04/19/06	EPA 625	
4,6-Dinitro-2-methylphenol	ND	10.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	20.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	10.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	10.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	ND	10.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	10.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10.0	"	"	"	"	"	"	
Hexachloroethane	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Isophorone	ND	10.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	
2-Nitroaniline	ND	20.0	"	"	"	"	"	"	
3-Nitroaniline	ND	10.0	"	"	"	"	"	"	
4-Nitroaniline	ND	10.0	"	"	"	"	"	"	
Nitrobenzene	ND	10.0	"	"	"	"	"	"	
2-Nitrophenol	ND	10.0	"	"	"	"	"	"	
4-Nitrophenol	ND	10.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	10.0	"	"	"	"	"	"	
Phenol	ND	10.0	"	"	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10.0	"	"	"	"	"	"	
Surrogate: 2-FBP	80.8 %	49-122			"	"	"	"	
Surrogate: 2-FP	76.8 %	20-111			"	"	"	"	
Surrogate: Nitrobenzene-d5	83.8 %	50-120			"	"	"	"	
Surrogate: Phenol-d6	80.2 %	12-120			"	"	"	"	
Surrogate: p-Terphenyl-d14	75.4 %	10-138			"	"	"	"	
Surrogate: 2,4,6-TBP	92.8 %	22-131			"	"	"	"	

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Outfall-2-041406 (BPD0346-01) Water Sampled: 04/14/06 07:50 Received: 04/15/06 11:30

Oil & Grease (HEM)	ND	5.21	mg/l	1	6D18011	04/18/06	04/19/06	EPA 1664A	
Total Petroleum Hydrocarbons (SGT-HEM)	ND	5.21	"	"	"	"	"	"	

Outfall-1-041406 (BPD0346-02) Water Sampled: 04/14/06 08:45 Received: 04/15/06 11:30

Cyanide (total)	ND	0.0100	mg/l	1	6D24052	04/24/06	04/24/06	EPA 335.2 Mod	
Oil & Grease (HEM)	ND	4.95	"	"	6D19027	04/19/06	04/20/06	EPA 1664A	
Total Petroleum Hydrocarbons (SGT-HEM)	ND	4.95	"	"	"	"	"	"	
Total Suspended Solids	ND	4.0	"	"	6D17056	04/17/06	04/19/06	EPA 160.2	

North Creek Analytical - Bothell

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Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
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Batch 6D15012: Prepared 04/15/06 Using EPA 5030B (P/T)

Blank (6D15012-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Surrogate: 4-BFB (FID)	54.2		"	60.0		90.3	58-144			

LCS (6D15012-BS1)

Gasoline Range Hydrocarbons	1020	50.0	ug/l	1000		102	80-120			
Surrogate: 4-BFB (FID)	54.8		"	60.0		91.3	58-144			

Duplicate (6D15012-DUP1)

Source: BPD0275-04RE1

Gasoline Range Hydrocarbons	10500	250	ug/l		10600			0.948	25	G-02
Surrogate: 4-BFB (FID)	45.3		"	60.0		75.5	58-144			

Matrix Spike (6D15012-MS1)

Source: BPD0275-04RE1

Gasoline Range Hydrocarbons	16300	250	ug/l	5000	10600	114	75-131			
Surrogate: 4-BFB (FID)	65.0		"	60.0		108	58-144			

Batch 6D18029: Prepared 04/18/06 Using EPA 5030B (P/T)

Blank (6D18029-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	57.9		"	60.0		96.5	58-144			
Surrogate: 4-BFB (PID)	60.7		"	60.0		101	68-140			

LCS (6D18029-BS1)

Gasoline Range Hydrocarbons	995	50.0	ug/l	1000		99.5	80-120			
Surrogate: 4-BFB (FID)	64.8		"	60.0		108	58-144			

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D18029: Prepared 04/18/06 Using EPA 5030B (P/T)

LCS (6D18029-BS2)

Benzene	27.7	0.500	ug/l	30.0		92.3	80-120			
Toluene	27.4	0.500	"	30.0		91.3	80-120			
Ethylbenzene	27.2	0.500	"	30.0		90.7	80-120			
Xylenes (total)	83.3	1.00	"	90.0		92.6	80-120			
Surrogate: 4-BFB (PID)	60.6		"	60.0		101	68-140			

Duplicate (6D18029-DUP1)

Source: BPD0306-06

Gasoline Range Hydrocarbons	461	50.0	ug/l		459			0.435	25	
Benzene	2.48	0.500	"		2.70			8.49	25	I-06
Toluene	ND	0.500	"		0.533			8.61	25	
Ethylbenzene	4.61	0.500	"		4.96			7.31	25	
Xylenes (total)	ND	1.00	"		ND			8.94	25	
Surrogate: 4-BFB (FID)	98.2		"	60.0		164	58-144			SR-4
Surrogate: 4-BFB (PID)	68.7		"	60.0		114	68-140			

Duplicate (6D18029-DUP2)

Source: BPD0306-07

Gasoline Range Hydrocarbons	725	50.0	ug/l		731			0.824	25	
Benzene	4.26	0.500	"		4.80			11.9	25	
Toluene	0.511	0.500	"		0.575			11.8	25	
Ethylbenzene	6.22	0.500	"		6.99			11.7	25	
Xylenes (total)	12.3	1.00	"		13.8			11.5	25	
Surrogate: 4-BFB (FID)	69.7		"	60.0		116	58-144			
Surrogate: 4-BFB (PID)	57.7		"	60.0		96.2	68-140			

Matrix Spike (6D18029-MS1)

Source: BPD0306-06

Gasoline Range Hydrocarbons	1530	50.0	ug/l	1000	459	107	75-131			
Surrogate: 4-BFB (FID)	108		"	60.0		180	58-144			SR-4

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Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D18029: Prepared 04/18/06 Using EPA 5030B (P/T)

Matrix Spike (6D18029-MS2)

Source: BPD0306-07

Benzene	33.5	0.500	ug/l	30.0	4.80	95.7	46-130			
Toluene	28.9	0.500	"	30.0	0.575	94.4	60-124			
Ethylbenzene	34.8	0.500	"	30.0	6.99	92.7	56-141			
Xylenes (total)	98.4	1.00	"	90.0	13.8	94.0	66-132			
Surrogate: 4-BFB (PID)	62.3		"	60.0		104	68-140			

Batch 6D20013: Prepared 04/20/06 Using EPA 5030B (P/T)

Blank (6D20013-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	58.5		"	60.0		97.5	58-144			
Surrogate: 4-BFB (PID)	60.9		"	60.0		102	68-140			

LCS (6D20013-BS1)

Gasoline Range Hydrocarbons	916	50.0	ug/l	1000		91.6	80-120			
Surrogate: 4-BFB (FID)	62.2		"	60.0		104	58-144			

LCS (6D20013-BS2)

Benzene	26.9	0.500	ug/l	30.0		89.7	80-120			
Toluene	26.7	0.500	"	30.0		89.0	80-120			
Ethylbenzene	26.6	0.500	"	30.0		88.7	80-120			
Xylenes (total)	81.5	1.00	"	90.0		90.6	80-120			
Surrogate: 4-BFB (PID)	60.1		"	60.0		100	68-140			

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9 Lake Bellevue Dr Ste 108
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Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D20013: Prepared 04/20/06 Using EPA 5030B (P/T)

Duplicate (6D20013-DUP1)

Source: BPD0356-05

Gasoline Range Hydrocarbons	1000	50.0	ug/l		1010			0.995	25	
Benzene	0.942	0.500	"		0.924			1.93	25	
Toluene	ND	0.500	"		ND			6.41	25	
Ethylbenzene	6.97	0.500	"		6.87			1.45	25	
Xylenes (total)	2.46	1.00	"		2.47			0.406	25	
Surrogate: 4-BFB (FID)	68.9		"	60.0		115	58-144			
Surrogate: 4-BFB (PID)	49.7		"	60.0		82.8	68-140			

Duplicate (6D20013-DUP2)

Source: BPD0403-01

Gasoline Range Hydrocarbons	ND	50.0	ug/l		ND			NR	25	
Benzene	ND	0.500	"		ND			NR	25	
Toluene	ND	0.500	"		ND			NR	25	
Ethylbenzene	ND	0.500	"		ND			NR	25	
Xylenes (total)	ND	1.00	"		ND			NR	25	
Surrogate: 4-BFB (FID)	56.9		"	60.0		94.8	58-144			
Surrogate: 4-BFB (PID)	54.9		"	60.0		91.5	68-140			

Matrix Spike (6D20013-MS1)

Source: BPD0356-05

Gasoline Range Hydrocarbons	2240	50.0	ug/l	1000	1010	123	75-131			
Surrogate: 4-BFB (FID)	83.4		"	60.0		139	58-144			

Matrix Spike (6D20013-MS2)

Source: BPD0403-01

Benzene	29.5	0.500	ug/l	30.0	ND	98.3	46-130			
Toluene	29.2	0.500	"	30.0	ND	97.3	60-124			
Ethylbenzene	29.2	0.500	"	30.0	ND	97.3	56-141			
Xylenes (total)	88.8	1.00	"	90.0	ND	98.7	66-132			
Surrogate: 4-BFB (PID)	62.0		"	60.0		103	68-140			

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Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Total Metals by EPA 200 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D19037: Prepared 04/19/06 Using EPA 200 Series

Blank (6D19037-BLK1)

Silver	ND	0.0100	mg/l
Arsenic	ND	0.100	"
Cadmium	ND	0.00500	"
Copper	ND	0.0100	"
Nickel	ND	0.0100	"
Lead	ND	0.0500	"
Zinc	ND	0.0200	"

LCS (6D19037-BS1)

Silver	1.03	0.0100	mg/l	1.00	103	85-115
Arsenic	5.00	0.100	"	5.00	100	85-115
Cadmium	4.89	0.00500	"	5.00	97.8	85-115
Copper	4.80	0.0100	"	5.00	96.0	85-115
Nickel	4.96	0.0100	"	5.00	99.2	85-115
Lead	4.84	0.0500	"	5.00	96.8	85-115
Zinc	4.95	0.0200	"	5.00	99.0	85-115

Duplicate (6D19037-DUP1)

Source: BPD0361-01

Silver	ND	0.0100	mg/l	ND	NR	50	DP-1
Arsenic	ND	0.100	"	ND	47.2	20	
Cadmium	ND	0.00500	"	ND	NR	20	
Copper	0.0200	0.0100	"	0.0188	6.19	20	
Nickel	ND	0.0100	"	ND	NR	20	
Lead	ND	0.0500	"	ND	NR	20	
Zinc	ND	0.0200	"	ND		20	

Matrix Spike (6D19037-MS1)

Source: BPD0361-01

Silver	0.969	0.0100	mg/l	1.00	ND	96.9	70-130
Arsenic	5.10	0.100	"	5.00	0.0254	101	80-120
Cadmium	4.89	0.00500	"	5.00	ND	97.8	80-120
Copper	4.94	0.0100	"	5.00	0.0188	98.4	80-120
Nickel	4.84	0.0100	"	5.00	ND	96.8	80-120
Lead	4.45	0.0500	"	5.00	ND	89.0	80-120
Zinc	4.94	0.0200	"	5.00	ND	98.8	80-120

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Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Total Metals by EPA 200 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 6D20034: Prepared 04/20/06 Using EPA 7470A									
Blank (6D20034-BLK1)									
Mercury	ND	0.000200	mg/l						
LCS (6D20034-BS1)									
Mercury	0.00526	0.000200	mg/l	0.00500		105	85-115		
Duplicate (6D20034-DUP1) Source: BPD0355-02									
Mercury	ND	0.000200	mg/l		ND		NR	20	
Matrix Spike (6D20034-MS1) Source: BPD0355-02									
Mercury	0.00478	0.000200	mg/l	0.00500	ND	95.6	70-130		
Matrix Spike Dup (6D20034-MSD1) Source: BPD0355-02									
Mercury	0.00469	0.000200	mg/l	0.00500	ND	93.8	70-130	1.90	20

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9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D21037: Prepared 04/21/06 Using EPA 3520C

Blank (6D21037-BLK1)

Aldrin [2C]	ND	0.100	ug/l							
alpha-BHC [2C]	ND	0.0400	"							
beta-BHC [2C]	ND	0.0800	"							
delta-BHC [2C]	ND	0.100	"							
gamma-BHC (Lindane) [2C]	ND	0.0400	"							
4,4'-DDD [2C]	ND	0.0800	"							
4,4'-DDE [2C]	ND	0.0800	"							
4,4'-DDT [2C]	ND	0.0800	"							
Dieldrin [2C]	ND	0.0800	"							
Endosulfan I [2C]	ND	0.0200	"							
Endosulfan II [2C]	ND	0.0800	"							
Endosulfan sulfate [2C]	ND	0.100	"							
Endrin [2C]	ND	0.0800	"							
Endrin aldehyde [2C]	ND	0.200	"							
Heptachlor [2C]	ND	0.0800	"							
Heptachlor epoxide [2C]	ND	0.0400	"							
Toxaphene [2C]	ND	2.00	"							
Surrogate: TCX [2C]	0.166		"	0.200		83.0	25-129			
Surrogate: Decachlorobiphenyl [2C]	0.187		"	0.200		93.5	22-125			

Blank (6D21037-BLK2)

Aroclor 1016 [2C]	ND	0.500	ug/l							
Aroclor 1221 [2C]	ND	0.500	"							
Aroclor 1232 [2C]	ND	0.500	"							
Aroclor 1242 [2C]	ND	0.500	"							
Aroclor 1248 [2C]	ND	0.500	"							
Aroclor 1254 [2C]	ND	0.500	"							
Aroclor 1260 [2C]	ND	0.500	"							
Surrogate: TCX [2C]	0.159		"	0.200		79.5	25-129			
Surrogate: Decachlorobiphenyl [2C]	0.156		"	0.200		78.0	22-125			

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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Environmental Laboratory Network



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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D21037: Prepared 04/21/06 Using EPA 3520C

LCS (6D21037-BS1)

Aldrin [2C]	0.222	0.100	ug/l	0.250		88.8	42-122			
alpha-BHC [2C]	0.203	0.0400	"	0.250		81.2	37-134			
beta-BHC [2C]	0.221	0.0800	"	0.250		88.4	17-147			
delta-BHC [2C]	0.224	0.100	"	0.250		89.6	19-140			
gamma-BHC (Lindane) [2C]	0.211	0.0400	"	0.250		84.4	32-127			
4,4'-DDD [2C]	0.480	0.0800	"	0.500		96.0	31-141			
4,4'-DDE [2C]	0.434	0.0800	"	0.500		86.8	30-145			
4,4'-DDT [2C]	0.436	0.0800	"	0.500		87.2	25-160			
Dieldrin [2C]	0.463	0.0800	"	0.500		92.6	36-146			
Endosulfan I [2C]	0.217	0.0200	"	0.250		86.8	45-153			
Endosulfan II [2C]	0.448	0.0800	"	0.500		89.6	10-202			
Endosulfan sulfate [2C]	0.451	0.100	"	0.500		90.2	26-144			
Endrin [2C]	0.295	0.0800	"	0.500		59.0	30-147			
Endrin aldehyde [2C]	0.432	0.200	"	0.500		86.4	30-147			
Heptachlor [2C]	0.208	0.0800	"	0.250		83.2	34-111			
Heptachlor epoxide [2C]	0.230	0.0400	"	0.250		92.0	37-142			
Surrogate: TCX [2C]	0.162		"	0.200		81.0	25-129			
Surrogate: Decachlorobiphenyl [2C]	0.190		"	0.200		95.0	22-125			

LCS (6D21037-BS2)

Aroclor 1016 [2C]	2.23	0.500	ug/l	2.50		89.2	50-114			
Aroclor 1260 [2C]	2.00	0.500	"	2.50		80.0	8-127			
Surrogate: TCX [2C]	0.169		"	0.200		84.5	25-129			
Surrogate: Decachlorobiphenyl [2C]	0.143		"	0.200		71.5	22-125			

LCS Dup (6D21037-BSD1)

Aldrin [2C]	0.235	0.100	ug/l	0.250		94.0	42-122	5.69	35	
alpha-BHC [2C]	0.208	0.0400	"	0.250		83.2	37-134	2.43	35	
beta-BHC [2C]	0.229	0.0800	"	0.250		91.6	17-147	3.56	35	
delta-BHC [2C]	0.235	0.100	"	0.250		94.0	19-140	4.79	35	
gamma-BHC (Lindane) [2C]	0.213	0.0400	"	0.250		85.2	32-127	0.943	35	
4,4'-DDD [2C]	0.494	0.0800	"	0.500		98.8	31-141	2.87	35	
4,4'-DDE [2C]	0.452	0.0800	"	0.500		90.4	30-145	4.06	35	
4,4'-DDT [2C]	0.452	0.0800	"	0.500		90.4	25-160	3.60	35	
Dieldrin [2C]	0.482	0.0800	"	0.500		96.4	36-146	4.02	35	
Endosulfan I [2C]	0.236	0.0200	"	0.250		94.4	45-153	8.39	35	

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D21037: Prepared 04/21/06 Using EPA 3520C

LCS Dup (6D21037-BSD1)

Endosulfan II [2C]	0.502	0.0800	ug/l	0.500		100	10-202	11.4	35
Endosulfan sulfate [2C]	0.519	0.100	"	0.500		104	26-144	14.0	35
Endrin [2C]	0.387	0.0800	"	0.500		77.4	30-147	27.0	35
Endrin aldehyde [2C]	0.605	0.200	"	0.500		121	30-147	33.4	35
Heptachlor [2C]	0.219	0.0800	"	0.250		87.6	34-111	5.15	35
Heptachlor epoxide [2C]	0.242	0.0400	"	0.250		96.8	37-142	5.08	35
Surrogate: TCX [2C]	0.163		"	0.200		81.5	25-129		
Surrogate: Decachlorobiphenyl [2C]	0.200		"	0.200		100	22-125		

LCS Dup (6D21037-BSD2)

Aroclor 1016 [2C]	2.21	0.500	ug/l	2.50		88.4	50-114	0.901	35
Aroclor 1260 [2C]	1.98	0.500	"	2.50		79.2	8-127	1.01	30
Surrogate: TCX [2C]	0.164		"	0.200		82.0	25-129		
Surrogate: Decachlorobiphenyl [2C]	0.134		"	0.200		67.0	22-125		

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Purgeables by EPA Method 624 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D17051: Prepared 04/17/06 Using EPA 5030B

Blank (6D17051-BLK1)

Acrolein	ND	5.00	ug/l						
Acrylonitrile	ND	5.00	"						
Benzene	ND	1.00	"						
Bromodichloromethane	ND	1.00	"						
Bromoform	ND	1.00	"						
Bromomethane	ND	2.00	"						
Carbon tetrachloride	ND	1.00	"						
Chlorobenzene	ND	1.00	"						
Chloroethane	ND	1.00	"						
2-Chloroethylvinyl ether	ND	5.00	"						
Chloroform	ND	1.00	"						
Chloromethane	ND	5.00	"						
Dibromochloromethane	ND	1.00	"						
1,2-Dichlorobenzene	ND	1.00	"						
1,3-Dichlorobenzene	ND	1.00	"						
1,4-Dichlorobenzene	ND	1.00	"						
1,1-Dichloroethane	ND	1.00	"						
1,2-Dichloroethane	ND	1.00	"						
1,1-Dichloroethene	ND	1.00	"						
trans-1,2-Dichloroethene	ND	1.00	"						
1,2-Dichloropropane	ND	1.00	"						
cis-1,3-Dichloropropene	ND	1.00	"						
trans-1,3-Dichloropropene	ND	1.00	"						
Ethylbenzene	ND	1.00	"						
Methylene chloride	ND	5.00	"						
1,1,2,2-Tetrachloroethane	ND	1.00	"						
Tetrachloroethene	ND	1.00	"						
Toluene	ND	1.00	"						
1,1,1-Trichloroethane	ND	1.00	"						
1,1,2-Trichloroethane	ND	1.00	"						
Trichloroethene	ND	1.00	"						
Trichlorofluoromethane	ND	1.00	"						
Vinyl chloride	ND	1.00	"						
Surrogate: 1,2-DCA-d4	46.7		"	40.0		117	70-130		
Surrogate: Toluene-d8	39.4		"	40.0		98.5	70-130		

North Creek Analytical - Bothell

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Purgeables by EPA Method 624 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D17051: Prepared 04/17/06 Using EPA 5030B

Blank (6D17051-BLK1)

Surrogate: 4-BFB 39.2 ug/l 40.0 98.0 70-130

LCS (6D17051-BS1)

Benzene	39.0	1.00	ug/l	40.0	97.5	75-125
Bromodichloromethane	44.5	1.00	"	40.0	111	75-125
Bromoform	42.9	1.00	"	40.0	107	75-125
Bromomethane	39.2	2.00	"	40.0	98.0	75-125
Carbon tetrachloride	46.8	1.00	"	40.0	117	75-125
Chlorobenzene	38.9	1.00	"	40.0	97.2	75-125
Chloroethane	43.7	1.00	"	40.0	109	75-125
Chloroform	41.6	1.00	"	40.0	104	75-125
Chloromethane	43.9	5.00	"	40.0	110	75-125
Dibromochloromethane	45.7	1.00	"	40.0	114	75-125
1,2-Dichlorobenzene	37.1	1.00	"	40.0	92.8	75-125
1,3-Dichlorobenzene	37.7	1.00	"	40.0	94.2	75-125
1,4-Dichlorobenzene	36.2	1.00	"	40.0	90.5	75-125
1,1-Dichloroethane	40.3	1.00	"	40.0	101	75-125
1,2-Dichloroethane	44.2	1.00	"	40.0	110	75-125
1,1-Dichloroethene	43.6	1.00	"	40.0	109	75-125
trans-1,2-Dichloroethene	41.6	1.00	"	40.0	104	75-125
1,2-Dichloropropane	41.1	1.00	"	40.0	103	75-125
cis-1,3-Dichloropropene	40.5	1.00	"	40.0	101	75-125
trans-1,3-Dichloropropene	40.6	1.00	"	40.0	102	75-125
Ethylbenzene	40.6	1.00	"	40.0	102	75-125
Methylene chloride	40.2	5.00	"	40.0	100	75-125
1,1,2,2-Tetrachloroethane	38.5	1.00	"	40.0	96.2	75-125
Tetrachloroethene	38.8	1.00	"	40.0	97.0	75-130
Toluene	38.5	1.00	"	40.0	96.2	75-120
1,1,1-Trichloroethane	44.0	1.00	"	40.0	110	75-130
1,1,2-Trichloroethane	39.3	1.00	"	40.0	98.2	75-130
Trichloroethene	40.0	1.00	"	40.0	100	75-120
Trichlorofluoromethane	46.1	1.00	"	40.0	115	75-130
Vinyl chloride	41.0	1.00	"	40.0	102	75-125
Surrogate: 1,2-DCA-d4	45.7		"	40.0	114	70-130
Surrogate: Toluene-d8	39.7		"	40.0	99.2	70-130

North Creek Analytical - Bothell

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PES Environmental
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Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Purgeables by EPA Method 624 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D17051: Prepared 04/17/06 Using EPA 5030B

LCS (6D17051-BS1)

Surrogate: 4-BFB	40.2		ug/l	40.0		100	70-130	
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LCS Dup (6D17051-BSD1)

Benzene	37.2	1.00	ug/l	40.0		93.0	75-125	4.72	20
Bromodichloromethane	42.8	1.00	"	40.0		107	75-125	3.89	20
Bromoform	42.1	1.00	"	40.0		105	75-125	1.88	20
Bromomethane	36.8	2.00	"	40.0		92.0	75-125	6.32	20
Carbon tetrachloride	43.2	1.00	"	40.0		108	75-125	8.00	20
Chlorobenzene	37.1	1.00	"	40.0		92.8	75-125	4.74	20
Chloroethane	41.4	1.00	"	40.0		104	75-125	5.41	20
Chloroform	40.0	1.00	"	40.0		100	75-125	3.92	20
Chloromethane	40.8	5.00	"	40.0		102	75-125	7.32	20
Dibromochloromethane	44.3	1.00	"	40.0		111	75-125	3.11	20
1,2-Dichlorobenzene	36.3	1.00	"	40.0		90.8	75-125	2.18	20
1,3-Dichlorobenzene	35.7	1.00	"	40.0		89.2	75-125	5.45	20
1,4-Dichlorobenzene	34.4	1.00	"	40.0		86.0	75-125	5.10	20
1,1-Dichloroethane	38.5	1.00	"	40.0		96.2	75-125	4.57	20
1,2-Dichloroethane	43.0	1.00	"	40.0		108	75-125	2.75	20
1,1-Dichloroethene	40.6	1.00	"	40.0		102	75-125	7.13	20
trans-1,2-Dichloroethene	39.4	1.00	"	40.0		98.5	75-125	5.43	20
1,2-Dichloropropane	39.4	1.00	"	40.0		98.5	75-125	4.22	20
cis-1,3-Dichloropropene	39.2	1.00	"	40.0		98.0	75-125	3.26	20
trans-1,3-Dichloropropene	39.5	1.00	"	40.0		98.8	75-125	2.75	20
Ethylbenzene	38.8	1.00	"	40.0		97.0	75-125	4.53	20
Methylene chloride	38.8	5.00	"	40.0		97.0	75-125	3.54	20
1,1,2,2-Tetrachloroethane	37.2	1.00	"	40.0		93.0	75-125	3.43	20
Tetrachloroethene	36.5	1.00	"	40.0		91.2	75-130	6.11	20
Toluene	36.9	1.00	"	40.0		92.2	75-120	4.24	20
1,1,1-Trichloroethane	41.5	1.00	"	40.0		104	75-130	5.85	20
1,1,2-Trichloroethane	38.3	1.00	"	40.0		95.8	75-130	2.58	20
Trichloroethene	38.2	1.00	"	40.0		95.5	75-120	4.60	20
Trichlorofluoromethane	42.6	1.00	"	40.0		106	75-130	7.89	20
Vinyl chloride	37.1	1.00	"	40.0		92.8	75-125	9.99	20
Surrogate: 1,2-DCA-d4	45.2		"	40.0		113	70-130		
Surrogate: Toluene-d8	39.8		"	40.0		99.5	70-130		

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Project: Shell Harbor Island
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Purgeables by EPA Method 624 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D17051: Prepared 04/17/06 Using EPA 5030B

LCS Dup (6D17051-BSD1)

Surrogate: 4-BFB	38.8		ug/l	40.0		97.0	70-130		
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Matrix Spike (6D17051-MS1)

Source: BPD0364-02

Benzene	40.0	1.00	ug/l	40.0	ND	100	37-151		
Bromodichloromethane	46.6	1.00	"	40.0	ND	116	35-155		
Bromoform	41.7	1.00	"	40.0	ND	104	45-169		
Bromomethane	41.6	2.00	"	40.0	ND	104	50-150		
Carbon tetrachloride	50.8	1.00	"	40.0	ND	127	70-140		
Chlorobenzene	40.1	1.00	"	40.0	ND	100	37-160		
Chloroethane	47.8	1.00	"	40.0	ND	120	14-230		
Chloroform	49.7	1.00	"	40.0	4.09	114	51-138		
Chloromethane	46.0	5.00	"	40.0	ND	115	0-273		
Dibromochloromethane	45.7	1.00	"	40.0	ND	114	53-149		
1,2-Dichlorobenzene	38.2	1.00	"	40.0	ND	95.5	18-190		
1,3-Dichlorobenzene	38.0	1.00	"	40.0	ND	95.0	59-156		
1,4-Dichlorobenzene	36.2	1.00	"	40.0	ND	90.5	18-190		
1,1-Dichloroethane	42.7	1.00	"	40.0	0.360	106	59-155		
1,2-Dichloroethane	48.4	1.00	"	40.0	ND	121	49-155		
1,1-Dichloroethene	47.1	1.00	"	40.0	ND	118	59-158		
trans-1,2-Dichloroethene	45.3	1.00	"	40.0	ND	113	54-156		
1,2-Dichloropropane	41.0	1.00	"	40.0	ND	102	0-210		
cis-1,3-Dichloropropene	40.6	1.00	"	40.0	ND	102	0-227		
trans-1,3-Dichloropropene	40.2	1.00	"	40.0	ND	100	17-183		
Ethylbenzene	42.7	1.00	"	40.0	ND	107	37-162		
Methylene chloride	43.7	5.00	"	40.0	ND	109	25-221		
1,1,2,2-Tetrachloroethane	37.4	1.00	"	40.0	ND	93.5	46-157		
Tetrachloroethene	44.5	1.00	"	40.0	4.51	100	64-148		
Toluene	39.5	1.00	"	40.0	ND	98.8	47-150		
1,1,1-Trichloroethane	47.9	1.00	"	40.0	ND	120	52-162		
1,1,2-Trichloroethane	39.7	1.00	"	40.0	ND	99.2	52-150		
Trichloroethene	42.1	1.00	"	40.0	0.660	104	71-157		
Trichlorofluoromethane	51.8	1.00	"	40.0	ND	130	17-181		
Vinyl chloride	44.9	1.00	"	40.0	ND	112	0-251		

Surrogate: 1,2-DCA-d4	49.5		"	40.0		124	70-130		
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Surrogate: Toluene-d8	39.0		"	40.0		97.5	70-130		
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North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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Environmental Laboratory Network



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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Purgeables by EPA Method 624 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch 6D17051: Prepared 04/17/06 Using EPA 5030B

Matrix Spike (6D17051-MS1)

Source: BPD0364-02

Surrogate: 4-BFB	38.0	ug/l	40.0	95.0	70-130
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North Creek Analytical - Bothell

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Acid and Base/Neutral Extractables by EPA Method 625 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Notes
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Batch 6D17014: Prepared 04/17/06 Using EPA 3520C

Blank (6D17014-BLK1)

Acenaphthene	ND	10.0	ug/l
Acenaphthylene	ND	10.0	"
Aniline	ND	10.0	"
Anthracene	ND	10.0	"
1,2-Diphenylhydrazine (as Azobenzene)	ND	20.0	"
Benzo (a) anthracene	ND	10.0	"
Benzo (a) pyrene	ND	10.0	"
Benzo (b) fluoranthene	ND	10.0	"
Benzo (k) fluoranthene	ND	10.0	"
Benzo (ghi) perylene	ND	10.0	"
Benzoic Acid	ND	100	"
Benzyl alcohol	ND	10.0	"
Bis(2-chloroethoxy)methane	ND	10.0	"
Bis(2-chloroethyl)ether	ND	10.0	"
Bis(2-chloroisopropyl)ether	ND	10.0	"
Bis(2-ethylhexyl)phthalate	ND	50.0	"
4-Bromophenyl phenyl ether	ND	10.0	"
Butyl benzyl phthalate	ND	10.0	"
Carbazole	ND	10.0	"
4-Chloroaniline	ND	10.0	"
4-Chloro-3-methylphenol	ND	10.0	"
2-Chloronaphthalene	ND	10.0	"
2-Chlorophenol	ND	10.0	"
4-Chlorophenyl phenyl ether	ND	10.0	"
3 & 4-Methylphenol (m,p-Cresols)	ND	10.0	"
2-Methylphenol (o-Cresol)	ND	10.0	"
Chrysene	ND	10.0	"
Di-n-butyl phthalate	ND	10.0	"
Dibenz (a,h) anthracene	ND	10.0	"
Dibenzofuran	ND	10.0	"
1,2-Dichlorobenzene	ND	10.0	"
1,3-Dichlorobenzene	ND	10.0	"
1,4-Dichlorobenzene	ND	10.0	"
3,3'-Dichlorobenzidine	ND	20.0	"
2,4-Dichlorophenol	ND	10.0	"

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Acid and Base/Neutral Extractables by EPA Method 625 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6D17014: Prepared 04/17/06 Using EPA 3520C

Blank (6D17014-BLK1)

Diethyl phthalate	ND	10.0	ug/l							
2,4-Dimethylphenol	ND	10.0	"							
Dimethyl phthalate	ND	10.0	"							
4,6-Dinitro-2-methylphenol	ND	10.0	"							
2,4-Dinitrophenol	ND	20.0	"							
2,4-Dinitrotoluene	ND	10.0	"							
2,6-Dinitrotoluene	ND	10.0	"							
N-Nitrosodiphenylamine	ND	10.0	"							
Fluoranthene	ND	10.0	"							
Fluorene	ND	10.0	"							
Hexachlorobenzene	ND	10.0	"							
Hexachlorobutadiene	ND	10.0	"							
Hexachlorocyclopentadiene	ND	10.0	"							
Hexachloroethane	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Isophorone	ND	10.0	"							
2-Methylnaphthalene	ND	10.0	"							
Naphthalene	ND	10.0	"							
2-Nitroaniline	ND	20.0	"							
3-Nitroaniline	ND	10.0	"							
4-Nitroaniline	ND	10.0	"							
Nitrobenzene	ND	10.0	"							
2-Nitrophenol	ND	10.0	"							
4-Nitrophenol	ND	10.0	"							
N-Nitrosodi-n-propylamine	ND	10.0	"							
Di-n-octyl phthalate	ND	10.0	"							
Pentachlorophenol	ND	10.0	"							
Phenanthrene	ND	10.0	"							
Phenol	ND	10.0	"							
Pyrene	ND	10.0	"							
1,2,4-Trichlorobenzene	ND	10.0	"							
2,4,5-Trichlorophenol	ND	10.0	"							
2,4,6-Trichlorophenol	ND	10.0	"							
Surrogate: 2-FBP	32.9		"	50.0		65.8	49-122			
Surrogate: 2-FP	66.4		"	100		66.4	20-111			

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Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Acid and Base/Neutral Extractables by EPA Method 625 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D17014: Prepared 04/17/06 Using EPA 3520C

Blank (6D17014-BLK1)

Surrogate: Nitrobenzene-d5	35.6		ug/l	50.0		71.2	50-120			
Surrogate: Phenol-d6	65.8		"	100		65.8	12-120			
Surrogate: p-Terphenyl-d14	39.4		"	50.0		78.8	10-138			
Surrogate: 2,4,6-TBP	68.0		"	100		68.0	22-131			

LCS (6D17014-BS1)

Acenaphthene	79.7	10.0	ug/l	100		79.7	47-145			
Acenaphthylene	78.0	10.0	"	100		78.0	33-145			
Anthracene	82.6	10.0	"	100		82.6	27-133			
1,2-Diphenylhydrazine (as Azobenzene)	76.5	20.0	"	100		76.5	25-150			
Benzo (a) anthracene	82.8	10.0	"	100		82.8	33-143			
Benzo (a) pyrene	80.2	10.0	"	100		80.2	25-163			
Benzo (b) fluoranthene	74.1	10.0	"	100		74.1	25-159			
Benzo (k) fluoranthene	82.5	10.0	"	100		82.5	25-162			
Benzo (ghi) perylene	88.7	10.0	"	100		88.7	25-219			
Bis(2-chloroethoxy)methane	79.5	10.0	"	100		79.5	33-184			
Bis(2-chloroethyl)ether	75.7	10.0	"	100		75.7	25-158			
Bis(2-chloroisopropyl)ether	75.2	10.0	"	100		75.2	36-166			
Bis(2-ethylhexyl)phthalate	83.3	50.0	"	100		83.3	25-158			
4-Bromophenyl phenyl ether	68.2	10.0	"	100		68.2	53-127			
Butyl benzyl phthalate	85.3	10.0	"	100		85.3	25-152			
2-Chloronaphthalene	65.1	10.0	"	100		65.1	60-118			
2-Chlorophenol	75.0	10.0	"	100		75.0	25-134			
4-Chlorophenyl phenyl ether	81.3	10.0	"	100		81.3	25-158			
3 & 4-Methylphenol (m,p-Cresols)	86.0	10.0	"	100		86.0	25-150			
Chrysene	81.5	10.0	"	100		81.5	25-168			
Di-n-butyl phthalate	86.6	10.0	"	100		86.6	25-118			
Dibenz (a,h) anthracene	92.1	10.0	"	100		92.1	25-227			
1,2-Dichlorobenzene	76.3	10.0	"	100		76.3	32-129			
1,3-Dichlorobenzene	72.5	10.0	"	100		72.5	25-172			
1,4-Dichlorobenzene	72.0	10.0	"	100		72.0	20-124			
3,3'-Dichlorobenzidine	106	20.0	"	100		106	25-262			
2,4-Dichlorophenol	82.3	10.0	"	100		82.3	39-135			
Diethyl phthalate	82.6	10.0	"	100		82.6	25-114			
2,4-Dimethylphenol	76.5	10.0	"	100		76.5	32-119			

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Acid and Base/Neutral Extractables by EPA Method 625 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 6D17014: Prepared 04/17/06 Using EPA 3520C

LCS (6D17014-BS1)

Dimethyl phthalate	80.0	10.0	ug/l	100		80.0	25-112		
4,6-Dinitro-2-methylphenol	85.2	10.0	"	100		85.2	25-181		
2,4-Dinitrophenol	89.8	20.0	"	100		89.8	25-191		
2,4-Dinitrotoluene	80.8	10.0	"	100		80.8	39-139		
2,6-Dinitrotoluene	82.1	10.0	"	100		82.1	50-158		
Fluoranthene	93.3	10.0	"	100		93.3	26-137		
Fluorene	82.1	10.0	"	100		82.1	59-121		
Hexachlorobenzene	80.4	10.0	"	100		80.4	25-152		
Hexachlorobutadiene	85.5	10.0	"	100		85.5	25-116		
Hexachloroethane	69.4	10.0	"	100		69.4	40-113		
Indeno (1,2,3-cd) pyrene	92.2	10.0	"	100		92.2	25-171		
Isophorone	81.1	10.0	"	100		81.1	25-196		
2-Methylnaphthalene	83.0	10.0	"	100		83.0	50-150		
Naphthalene	76.1	10.0	"	100		76.1	25-133		
Nitrobenzene	76.4	10.0	"	100		76.4	35-180		
2-Nitrophenol	74.8	10.0	"	100		74.8	29-182		
4-Nitrophenol	88.3	10.0	"	100		88.3	25-132		
N-Nitrosodi-n-propylamine	75.3	10.0	"	100		75.3	25-230		
Di-n-octyl phthalate	82.6	10.0	"	100		82.6	25-146		
Pentachlorophenol	104	10.0	"	100		104	25-176		
Phenanthrene	81.8	10.0	"	100		81.8	54-120		
Phenol	70.4	10.0	"	100		70.4	25-112		
Pyrene	84.0	10.0	"	100		84.0	52-115		
1,2,4-Trichlorobenzene	77.4	10.0	"	100		77.4	44-142		
Surrogate: 2-FBP	35.8		"	50.0		71.6	49-122		
Surrogate: 2-FP	65.0		"	100		65.0	20-111		
Surrogate: Nitrobenzene-d5	38.0		"	50.0		76.0	50-120		
Surrogate: Phenol-d6	69.5		"	100		69.5	12-120		
Surrogate: p-Terphenyl-d14	39.6		"	50.0		79.2	10-138		
Surrogate: 2,4,6-TBP	77.2		"	100		77.2	22-131		

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Acid and Base/Neutral Extractables by EPA Method 625 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D17014: Prepared 04/17/06 Using EPA 3520C

LCS Dup (6D17014-BSD1)

Acenaphthene	87.7	10.0	ug/l	100		87.7	47-145	9.56	30	
Acenaphthylene	85.2	10.0	"	100		85.2	33-145	8.82	30	
Anthracene	88.7	10.0	"	100		88.7	27-133	7.12	30	
1,2-Diphenylhydrazine (as Azobenzene)	81.7	20.0	"	100		81.7	25-150	6.57	30	
Benzo (a) anthracene	87.5	10.0	"	100		87.5	33-143	5.52	30	
Benzo (a) pyrene	84.1	10.0	"	100		84.1	25-163	4.75	30	
Benzo (b) fluoranthene	76.4	10.0	"	100		76.4	25-159	3.06	30	
Benzo (k) fluoranthene	88.4	10.0	"	100		88.4	25-162	6.90	30	
Benzo (ghi) perylene	92.1	10.0	"	100		92.1	25-219	3.76	30	
Bis(2-chloroethoxy)methane	87.4	10.0	"	100		87.4	33-184	9.47	30	
Bis(2-chloroethyl)ether	85.0	10.0	"	100		85.0	25-158	11.6	30	
Bis(2-chloroisopropyl)ether	84.6	10.0	"	100		84.6	36-166	11.8	30	
Bis(2-ethylhexyl)phthalate	103	50.0	"	100		103	25-158	21.1	30	
4-Bromophenyl phenyl ether	72.8	10.0	"	100		72.8	53-127	6.52	30	
Butyl benzyl phthalate	89.5	10.0	"	100		89.5	25-152	4.81	30	
2-Chloronaphthalene	71.7	10.0	"	100		71.7	60-118	9.65	30	
2-Chlorophenol	87.7	10.0	"	100		87.7	25-134	15.6	30	
4-Chlorophenyl phenyl ether	87.9	10.0	"	100		87.9	25-158	7.80	30	
3 & 4-Methylphenol (m,p-Cresols)	98.5	10.0	"	100		98.5	25-150	13.6	30	
Chrysene	85.2	10.0	"	100		85.2	25-168	4.44	30	
Di-n-butyl phthalate	91.7	10.0	"	100		91.7	25-118	5.72	30	
Dibenz (a,h) anthracene	96.6	10.0	"	100		96.6	25-227	4.77	30	
1,2-Dichlorobenzene	85.7	10.0	"	100		85.7	32-129	11.6	30	
1,3-Dichlorobenzene	81.7	10.0	"	100		81.7	25-172	11.9	30	
1,4-Dichlorobenzene	80.2	10.0	"	100		80.2	20-124	10.8	30	
3,3'-Dichlorobenzidine	119	20.0	"	100		119	25-262	11.6	30	
2,4-Dichlorophenol	92.2	10.0	"	100		92.2	39-135	11.3	30	
Diethyl phthalate	87.3	10.0	"	100		87.3	25-114	5.53	30	
2,4-Dimethylphenol	82.7	10.0	"	100		82.7	32-119	7.79	30	
Dimethyl phthalate	84.9	10.0	"	100		84.9	25-112	5.94	30	
4,6-Dinitro-2-methylphenol	94.0	10.0	"	100		94.0	25-181	9.82	30	
2,4-Dinitrophenol	105	20.0	"	100		105	25-191	15.6	30	
2,4-Dinitrotoluene	87.1	10.0	"	100		87.1	39-139	7.50	30	
2,6-Dinitrotoluene	88.5	10.0	"	100		88.5	50-158	7.50	30	
Fluoranthene	98.7	10.0	"	100		98.7	26-137	5.62	30	

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

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04/30/06 17:37

Acid and Base/Neutral Extractables by EPA Method 625 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D17014: Prepared 04/17/06 Using EPA 3520C

LCS Dup (6D17014-BSD1)

Fluorene	89.1	10.0	ug/l	100		89.1	59-121	8.18	30	
Hexachlorobenzene	86.0	10.0	"	100		86.0	25-152	6.73	30	
Hexachlorobutadiene	93.8	10.0	"	100		93.8	25-116	9.26	30	
Hexachloroethane	78.5	10.0	"	100		78.5	40-113	12.3	30	
Indeno (1,2,3-cd) pyrene	96.4	10.0	"	100		96.4	25-171	4.45	30	
Isophorone	87.8	10.0	"	100		87.8	25-196	7.93	30	
2-Methylnaphthalene	91.3	10.0	"	100		91.3	50-150	9.52	30	
Naphthalene	83.9	10.0	"	100		83.9	25-133	9.75	30	
Nitrobenzene	84.3	10.0	"	100		84.3	35-180	9.83	30	
2-Nitrophenol	84.8	10.0	"	100		84.8	29-182	12.5	30	
4-Nitrophenol	103	10.0	"	100		103	25-132	15.4	30	
N-Nitrosodi-n-propylamine	82.7	10.0	"	100		82.7	25-230	9.37	30	
Di-n-octyl phthalate	86.6	10.0	"	100		86.6	25-146	4.73	30	
Pentachlorophenol	115	10.0	"	100		115	25-176	10.0	30	
Phenanthrene	87.8	10.0	"	100		87.8	54-120	7.08	30	
Phenol	83.8	10.0	"	100		83.8	25-112	17.4	30	
Pyrene	89.1	10.0	"	100		89.1	52-115	5.89	30	
1,2,4-Trichlorobenzene	86.0	10.0	"	100		86.0	44-142	10.5	30	
Surrogate: 2-FBP	39.3		"	50.0		78.6	49-122			
Surrogate: 2-FP	77.1		"	100		77.1	20-111			
Surrogate: Nitrobenzene-d5	41.7		"	50.0		83.4	50-120			
Surrogate: Phenol-d6	82.3		"	100		82.3	12-120			
Surrogate: p-Terphenyl-d14	40.7		"	50.0		81.4	10-138			
Surrogate: 2,4,6-TBP	83.3		"	100		83.3	22-131			

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D17056: Prepared 04/17/06 Using General Preparation

Blank (6D17056-BLK1)

Total Suspended Solids	ND	4.0	mg/l							
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Duplicate (6D17056-DUP1)

Source: BPD0298-01

Total Suspended Solids	30	4.0	mg/l		33			9.52	19	
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Batch 6D18011: Prepared 04/18/06 Using Gravimetric (hexane)

Blank (6D18011-BLK1)

Oil & Grease (HEM)	ND	5.00	mg/l							
Total Petroleum Hydrocarbons (SGT-HEM)	ND	5.00	"							

LCS (6D18011-BS1)

Oil & Grease (HEM)	35.7	5.00	mg/l	40.0		89.2	78-114			
Total Petroleum Hydrocarbons (SGT-HEM)	15.1	5.00	"	20.0		75.5	64-132			

LCS Dup (6D18011-BSD1)

Oil & Grease (HEM)	35.9	5.00	mg/l	40.0		89.8	78-114	0.559	18	
Total Petroleum Hydrocarbons (SGT-HEM)	13.8	5.00	"	20.0		69.0	64-132	9.00	34	

Batch 6D19027: Prepared 04/19/06 Using Gravimetric (hexane)

Blank (6D19027-BLK1)

Oil & Grease (HEM)	ND	5.00	mg/l							
Total Petroleum Hydrocarbons (SGT-HEM)	ND	5.00	"							

LCS (6D19027-BS1)

Oil & Grease (HEM)	40.3	5.00	mg/l	40.0		101	78-114			
Total Petroleum Hydrocarbons (SGT-HEM)	20.2	5.00	"	20.0		101	64-132			

North Creek Analytical - Bothell

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6D19027: Prepared 04/19/06 Using Gravimetric (hexane)

LCS Dup (6D19027-BSD1)

Oil & Grease (HEM)	40.8	5.00	mg/l	40.0		102	78-114	1.23	18
Total Petroleum Hydrocarbons (SGT-HEM)	20.4	5.00	"	20.0		102	64-132	0.985	34

Batch 6D24052: Prepared 04/24/06 Using General Preparation

Blank (6D24052-BLK1)

Cyanide (total)	ND	0.0100	mg/l						
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LCS (6D24052-BS1)

Cyanide (total)	0.0990	0.0100	mg/l	0.103		96.1	85-115		
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Duplicate (6D24052-DUP1)

Source: BPD0446-02

Cyanide (total)	86.0	10.0	mg/l		83.0			3.55	27
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Matrix Spike (6D24052-MS1)

Source: BPD0446-02

Cyanide (total)	90.0	10.0	mg/l	1.03	83.0	680	36-133		MS-4
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Sandra Yakamavich, Project Manager

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Environmental Laboratory Network

PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01
Project Manager: Bill Haldeman

Reported:
04/30/06 17:37

Notes and Definitions

DP-1 Sample RPD exceeded the laboratory control limit.

G-02 The chromatogram for this sample does not resemble a typical gasoline pattern. Please refer to the sample chromatogram.

I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.

MS-4 Due to high levels of analyte in the sample, the Matrix Spike/Matrix Spike Duplicate calculation does not provide useful spike recovery information. See Laboratory Control Sample.

P-02 Greater than 40% difference between two dissimilar columns. After evaluation, the higher result has been reported.

SR-4 Due to sample matrix effects, the surrogate recovery was outside laboratory control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

North Creek Analytical - Bothell

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